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SR NO. 568,FO55

MULTIDISCIPLINARY USES IN ISRAEL

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Type I Report for period January 1, 1973 - June 30, 1973

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| 15. Abstract | | |

The status of multi-disciplinary research activity analyzing ERTS-1 imagery is described. List of papers based on ERTS - 1 imagery analysis is presented. Feasibility of detection and mapping of oil slicks is reported.

Type I Report for Period
January 1, 1973 - June 30, 1973

The analysis of ERTS - 1 imagery of Israel progresses and resulted in 5 publications on the subject, as indicated below.

The most interesting discovery, probably, was observation of oil slicks in the images of Gulf of Suez. Oil slicks show up in all the MSS bands as spots darker than the surrounding, unpolluted ocean. The contrast is weak, and band MSS - 5 is recommended monitoring oil slicks since the contrast appears greatest in this band.

The Spectral Data Corporation Projector/viewer arrived at the University and was put into operation.

L I S T O F P A P E R S

1 JAN. 1973 - 30 JUNE 1973

ERTS-1 PROGRAM F 055

1. J. Otterman. Preliminary Results from Israeli ERTS-1 Program. Rassegna Internazionale Electronica Nucleare ed Aerospaziale, xx, 195 293, 1973.
2. J. Otterman and M. Dayan. Oceanographic Studies of Imagery from the Earth Resources Technology Satellite. Proceedings, Fourth Scientific Conference of Israel Ecological Society, Tel-Aviv, Israel, pp. 11-114, April, 1973.
3. G. Ohring, J. Otterman, J.H. Joseph and Z. Levin. Contrails Study from ERST-1 Imagery of Eastern Mediterranean. Proceedings, Fourth Scientific Conference of Israel Ecological Society, Tel-Aviv, Israel, pp. 115-136, April, 1973.
4. A. Flexer, A. Ginzburg, A. Kahanowitz and J. Otterman. ERTS-1 Observations of Vegetation Cover, Rock Types. Geological Structure and Inland Water Bodies. Proceedings, Fourth Scientific Conference of Israel Ecological Society, Tel-Aviv, Israel, pp. 137-152, April, 1973.
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ERTS IMAGE DESCRIPTOR FORM

USER NAME JOSEPH OTTERMAN

DATE July 2, 1973

USER ID 568, FO55

AGENCY Tel-Aviv University

| PRODUCT ID (Include Band and Product) | Frequently Used Descriptors * | | | | DESCRIPTORS |
|---|-------------------------------|--|--|--|-----------------------------|
| | | | | | |
| 1091-07491-4,5,6 and 7 22 Oct. 1972 | | | | | oil slicks, smoke plumes |
| 1109 - 07483 - 4,5,6, and 7 9 Nov. 1972 | | | | | oil slicks, smoke plumes |